Concept Question 11-7: Are the secondary-to-primary voltage and current ratios in an ideal transformer dependent on L_1 and L_2 ?

Indirectly. They depend on the turns ratio, which in turn depends on the inductance ratio:

$$rac{\mathbf{V}_2}{\mathbf{V}_1} = n$$
 (ideal transformer with dots on same ends).

$$\frac{\mathbf{I}_2}{\mathbf{I}_1} = \frac{1}{n}$$
 (ideal transformer with dots on same ends).

$$\frac{L_2}{L_1} = \frac{N_2^2}{N_1^2} = n^2$$