Exercise 3.2-2:

$a^{\log_b c} = e^{\ln a \cdot \log_b c} = e^{\frac{\ln a \cdot \ln c}{\ln b}}$

$c^{\log_b a} = e^{\ln c \cdot \log_b a} = e^{\frac{\ln c \cdot \ln a}{\ln b}}$

$\therefore a^{\log_b c} = c^{\log_b a}$